

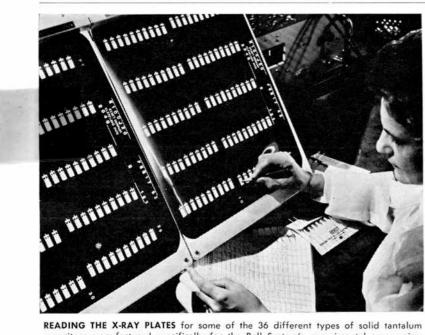
THE BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF UNION CARBIDE NUCLEAR COMPANY **DIVISION OF UNION CARBIDE CORPORATION**

VOL. 16 - NO. 31

OAK RIDGE, TENNESSEE

Wednesday, August 1, 1962



READING THE X-RAY PLATES for some of the 36 different types of solid tantalum capacitors manufactured specifically for the Bell System's experimental communications satellite, "TELSTAR" is a Union Carbide technician at the Kemet Plant, Cleveland, Ohio. Each of the capacitors going into the satellite was X-rayed not once, but twice, and a separate record was kept of the measurements of the electronic characteristics of each capacitor over a range of environmental conditions. Conditions such as blast-off shock and the Van Allen belt radiation had to be taken into account to make "TELSTAR" as reliable as modern manufacturing and testing techniques would permit.

Carbide In Orbit!

TELSTAR'S Capacitors Were Designed By UCC As Kemet Plant, Linde Combine Facilities

Carbide Supplies Electronics Industry Since Advent Of Vacuum Tube In 1919 As Role Grows

Plans to expand Union Carbide Corporation's activities in the electronics field have been announced by Birny Mason Jr., president.

An important part of the expansion program, UCC's president revealed, will be the installation of new facilities at the corporation's Kemet plant in Cleveland, Ohio, which will boost its output of solid tantalum capacitors by 50

UCC's Background In Electronics . . .

With Union Carbide's capacitors orbiting in TELSTAR, more than 40 years of experience in the electronics field are culminated.

Union Carbide has been supplying the electronics industry since the advent of the vacuum tube. Its Kemet operations go back to 1919. When the vacuum tube was invented, Kemet developed small gettering devices made of barium to remove un-wanted gasses. Throughout subsequent years, the company in-troduced many new techniques that led to the manufacture of hundreds of different getter designs to meet radio and television vacuum tube require-

ments.

In 1961, Kemet began producing the first 75-volt solid tantalum capacitor and is now beginning to make a similar 100-volt Kemet's ability to produce reliable high-voltage capacitors contributed largely to a sales growth in 1961 of 89 per cent over the previous year in this part of Union Carbide's business. In addition to being a leading producer of getters and capacitors, Kemet also makes silicon metal for semiconductors and silicon monoxide for coating lenses and mirrors.

Linde has been the nation's principal source of synthetic crystals since 1942. Its sales to the electronics industry in the crystal area in 1961 increased 20 per cent over the previous year. This Continued on Page 4 tronics industry."

"A large percentage of our present \$80 million research and development budget is devoted to the discovery and perfection of new tailor-made materials and the improvement of existing ones for all basic industries. We expect to concentrate a substantial part of these efforts to supply basic and custom materials to the elec-

per cent. Kemet capacitors, be-cause of their reliable perform-ance, have been designed into the

electronic system of the nation's

first communications satellite, "TELSTAR." Other important

uses for these devices are in com-

puters, industrial controls, and

in electronic systems for aircraft

Union Carbide's future role in

electronics, the corporation has consolidated the operations of Kemet Company, formerly a di-vision of Union Carbide, with the

electronics activities of one of its other divisions, Linde Company.

Linde, a leading producer of oxy-

gen and other industrial gases,

has been supplying a widely di-versified group of products for

electronics applications ranging

from argon gas to such items as synthetic crystals for optical masers (lasers).

One of the main objectives of this consolidation of activities," President Mason said, "is to

broaden and to define more clear-

ly the corporation's future role in electronics. The reorganization

will also place Union Carbide in

a better position to serve the ever-growing needs of the elec-tronics industry for new mate-

Turning to the future, he said:

As a further move to broaden

and missiles.

UCC Objectives

School's Curricula

120 Major Subjects Will Be Offered

By day and by night, Y-12ers who have not had the time or the opportunity to finish college can get a degree from the University of Tennessee with more than 120 major subjects in eight colleges and schools from which to choose

This fall the University of Tennessee Evening School is making enrollment and class scheduling even easier for career men and women by outlining the procedures that they may follow in earning certain degrees entirely through evening classes.

It is possible to earn a bachelor's degree in engineering in eight years by primarily studying "nights only." Normally, four years' work in regular day classes is necessary to earn a bachelor's degree from the University. **Engineering Schedule**

The engineering curricula bewith freshman mathematics and English in the first year; mathematics and English literature, and elective courses in the third year; and other required courses and electives are taken in the fourth year.

In the fifth through eighth years the student will be pre-pared to take the major courses necessary in his particular engineering curriculum — civil, me-chanical, electrical, ind u s t r i a l, nuclear, and/or chemical. The number of quarter-hours needed for an engineering degree ranges from 213 to 223, depending upon the curriculum.

Day Classes Can Be Taken

"Of course, it is a much faster process if one can combine reguday classes and evening sees," said Dr. Joseph P. Goddard, director of the Evening School. Adults who work full-time may be able to "squeeze in" an early morning or late after-noon class that will not interfere with their workday schedule. Then in Evening School they may take from one to three, or even four, courses each quarter, he

Another curriculum outlined as a six-year program is in general business, leading to a bachelor's degree in business administration. This also begins with the required freshman mathematics and English during the first year becomes more specialized each quarter.

Extension Courses

If students do not find the courses they want in a certain quarter, the Evening School may arrange Knoxville or off-campus courses to fulfill needs, said Dr. Goddard. The off-campus classes may count as extension credit. Up to one-fourth of the required hours for a degree can be taken Continued on Page 4

SAFETY SCOREBOARD The Y-12 Plant Has

Operated 130 Days Or 4,327,000 Man-Hours (Unofficial Estimate)

Without A Disabling Injury

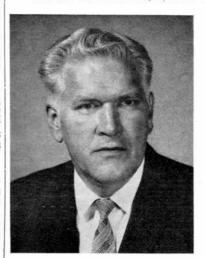
Through July 29 Phone 7755 For Daily Report

On Accident-Free Hours

UT Expands Evening | Marvin F. Schwenn Named Manager Of Y-12's Chemical Operations

Richard A. Walker Will Assume Duties As Superintendent At ORGDP Production Division

Organizational changes, affecting Y-12 as well as the Oak Ridge Gaseous Diffusion Plant, have been announced by Y-12 Plant Superintendent Robert G. Jordan. These intra-plant appointments are effective today, August 1.



Marvin F. Schwenn

* 103297

Richard A. Walker

'62's Sales Thus Far Set New Carbide Record

Sales of Union Carbide Corporation for the first six months of 1962 reached a record high of \$801,924,000, Morse G. Dial, chairman and chief executive officer, has announced. This was an increase of seven per cent over last year's first half sales of \$747,-458,000. Net income for the first six months amounted to \$74,-515,000, or \$2.47 a share, an increase of seven per cent over net income of \$69,395,000, or \$2.31 a share, for the same period last year.

Second-quarter sales were \$396,300,000, three per cent above sales of \$383,159,000 a year ago but two per cent be-low sales of \$405,624,000 for the first quarter of 1962. Net income in the second quarter amounted to \$36,805,000, or \$1.22 a share, three per cent above the \$35,671,000, or \$1.19 a share, reported in the second quarter of 1961. This year's first-quarter net income was \$37,710,000, or \$1.25 a share.

Marvin F. Schwenn, former superintendent of the Production Division at ORGDP, will be manager of chemical operations in Y-12. Leaving Y-12 is Richard A. "Dixie" Walker, who will assume Schwenn's former position in ORGDP.

> The new manager of chemical operations in Y-12, Marvin F. Schwenn, has been with Union Schwenn, has been with Union Carbide 18 years, coming to the New York Office, February 10, 1944. He transferred to Oak Ridge when Carbide began operations at the gaseous diffusion plant later in the year. He had previously been with the Allied Chemical Company, and Hercules Powder Company. Powder Company.

Schwenn is married to the for-mer Helen Kopp. They live at 101 Nolan Road, Oak Ridge, and have two daughters, Margaret, 15; and Carolyn, 11. Margaret will be a junior at Oak Ridge High School this year and Carolyn will attend Jefferson Junior High School

He holds a BS degree in Chem-He holds a BS degree in Chemical Engineering from the University of Wisconsin, Madison, Wisc. He is a member of BPOE (Elks). The Schwenns are members of Grace Lutheran Church.

Leaving Y-12 is Richard A. "Dixie" Walker. A well-known Carbide yeteran he came to Y 12.

"Dixie" Walker. A well-known Carbide veteran, he came to Y-12 October 1, 1953 after employment at both the ORGDP and Paducah facilities. His continuous service date is April 17, 1944, after working with E. I. DuPont de Nemours, Joliet, Ill. and Childersburg, Ala., and the Tennessee Coal, Iron and Railroad Co., Fairfield, Ala.

He holds a BS degree in Chemistry from Birmingham Southern College, Birmingham, Ala., and has done graduate work at the University of Alabama and Alabama Polytechnic Institute.

A member of Theta Chi Delta,

national honor chemical society and the BPOE (Elks), Walker and his wife live at 100 Oak Lane, Oak Ridge. They are members of the First Methodist Church. Married to the former Marjorie

Taylor, he has two children, Richard A. Jr. and Carol Houser. The Walkers have one grand-daughter, Marcia. The younger Walker is attending the University of Taylor and the Marcia. sity of Tennessee, and the daughter is in Y-12's Benefit Plans.
So Long "Dixie"

Y-12ers send their best wishes to the departing Walker. He will be missed around the plant, and fellow employees hope he will return occasionally. A hearty e aboard" newcomer Schwenn.

New Suit Has Plenty Of Pockets For Money

A Baltimore men's suit manufacturer is concerned about the man who dislikes being encumbered with luggage or paying airlines overweight. The manufacturer has come up with a suit designed for the traveller with designed for the traveller with 19 pockets, including a built-in money belt. The suit does come, however, without money.

The Bulletin

Published Weekly By And For Y-12 Employees Of UNION CARBIDE NUCLEAR COMPANY Division of



UNION CARBIDE CORPORATION

JAMES A. YOUNG

OFFICE Post Office Box Y Oak Ridge, Tenn. Bldg. 9704-2 Room 149 Telephone 7109

Knoxville Rites Held For Wilkins

The plant was saddened last week by the death of Charles P. Wilkins who was employed in the General Machine Shop. He died Tuesday, July 24, in Knoxville. A native of Knox County,

Mr. Wilkins



Force. After working in the Charleston Navy Yards and for the C. P. Wilkins Southern Railroad, he came to Y-12 November 2, 1953. Mr. Wilkins, who lived at 4030 Alma Avenue, Knoxville, was a member of the Kirkwood Presbyterian Church.

a veteran

States Air

Kirkwood Presbyterian Church. He is survived by his wife, Mrs. Mary Rutherford Wilkins; aunt and uncle, Mr. and Mrs. Richard Coomer, Knoxville; step sisters, Miss Ruby Black, Mrs. Robert Long; step brother Virgil Black, all of Anniston, Ala.; one niece and two nephews.

Funeral services were held at 2 p.m., Thursday, July 26, at McCarty's Chapel, Knoxville, with the Reverend Gettis Orman officiating. Interment followed in the Highland Memorial Ceme-

Fellow workers send their deepest condolences to Mr. Wilkins' family.

Karns Fair Is Set For This Saturday

The Karns Community - always a center of activity - is preparing for their Ninth Annual Community Fair to be held Saturday, August 4, beginning at 8 a.m. at the Karns High School.

Many Y-12ers reside in the Karns Community, and a number of these are active in the annual fair. Serving on various committees for the fair are Har-old Duncan, Bill Thomas, C. H. Noe, Roy Chilcoat, Lawrence Hawk and several others as well as many Y-12ers' wives.

The Fair will raise funds for the Community Center and Library. The attractive library is located about one-half mile beyond the red light in Karns.

Featured among the attractions are a barbecue dinner complete with all the trimmings; a pet show; sack races; bicycle and triand the cycle parades; of a queen. Many exhibits of community projects of arts and crafts and field produce will be shown also.

Admission for the big fair is \$1.50 for adults, \$1 for children.

CAPITAL A LA MARX

"It is said that Mrs. Marx observed at the end of a long and one!) rather bleak life how much better it would have been if dear Karl had made some capital instead of writing so much about it." . . . Prime Minister Macmil-



You won't find this reasoning in the etiquette books, but the real reason for roping off the aisles at a wedding is to keep the groom from escaping.

Escaping from the ivory towers of the little office, it's learned that Y-12ers are again this week busy as beavers all over, first in—

ENGINEERING

Tool Engineering is standing on its hands over the papa-of-the-week Jack West. Little Mark Douglas West made his debut at the Oak Ridge Hospital Tuesday, July 24. He tipped in at five pounds, eight ounces.

Get well wishes are sent to Charlie Chihasz, ill in the University of Tennessee Hospital . . . Wayne Collette and his family vacationed in Daytona recently . . . Duke Lawhorn is going to "play soldier" for his uncle for a couple of weeks as he leaves for military duty at the Air Force Base, at Ft. Bragg, N. C. . . . Steve Adamski vacationed in the nation's capital seeing the variety was a graduate of old Knox High School, nation's capitol seeing the various monuments and governmental officials . . . Dot Brown acted as chaperon for Miss Anderson of the United County in the recent beauty pageant at Jackson, Tenn.

A flash bulletin from Knox-ville announces the birth of

Spence Ferguson's son . . . born July 26 . . . weighing seven pounds, eight ounces. Mrs. Fergu-son is the former Donna Matlock in Tabulating Services come aboard to Paul Galle, who transferred in recently.

Many a wife has helped her husband to the top of the ladder then decided the picture would look better on the other wall.

CHEMICAL OPERATIONS



William Albert Miller III

This little fellow was born on Uncle Sam's birthday, July 4, in Oak Ridge Hospital, to brighten the home of Mr. and Mrs. William Albert Miller. Mrs. A. A. Baer, Chemical, is the proud grandmother. Little William weighed six pounds, seven and one-half ounces. His mother is Mrs. Baer's

Vacationing this week visiting his sister in Tullahoma is H. A.

Poise, or savoir faire, is the ability to go right on talking while the other fellow picks up

UTILITIES AND SHIFT SUPERINTENDENTS

Hiking to beautiful Mount Le-Conte recently were Jack and Mary Finchum, arriving in time to watch the sun set and arising in time in the a.m. to see Mr. Sun rise. The Finchums recommended this jaunt for anyone, be he five or 85. (Several other Y-12ers hastily agree with this

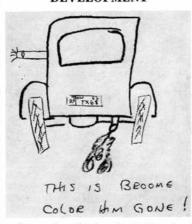
Also treking in the Great Smoky Mountains recently with his family was Oscar Blackwell . . . also took his son to camp for a couple of weeks . . . Vacationing D. G. Watson is staying with cutt recently visited the old

his father in Claiborne County, Hays Watson, who is ill. Get well wishes are sent to Mr. Watson . . . A. H. Norman and his family journeyed to Treasure Island,

Fla. for a fun-filled vacation.
On the sick and ailing list are
T. C. Wilson and E. R. Bailey, in
Oak Ridge Hospital . . . J. C.
Yarber, who is in St. Mary's Hospital Knowills and the F. F. pital, Knoxville, and to R. E. Ballew. The crew sends speedy recovery wishes to all. S. Kite and G. R. Beasley left

for vacations of unknown desti-

TECHNICAL AND DEVELOPMENT



Down in Mechanical Develop ment, Frank Broome vacationed last week . . . leaving the above sketch on his boss's desk. It is reprinted here without comment (which in itself is news.

Statistical Services folk all enjoyed a get together Saturday. July 21 down at Dan Hawxhurst's place on Watts Bar Lake. The 100 per cent attendance of the de-partment (it's a small one) flashed their skills on horseshoes, badminton, and swimming . Shirley Mackay is vacationing in Minnesota.

SS Control is welcoming into its midst Margaret Taylor.

The Laboratory pipettes in word that Daisy Ward recently attended the Business and Pro-fessional Women's national convention in the City of Angels, California. Daisy proudly tells that Tennessee won a silver cup for placing second in member-ship from all over the country.

The latest fashion note has little change in men's pockets this

INDUSTRIAL RELATIONS

The Cafeteria catches up on some recent happenings Madeline Tackett spent a week of vacation at her "Summer cot-tage" on Norris Lake, and had as guests her son John and wife and new baby, visiting from California . . . B. M. Jeffers and his two daughters spent two weeks recently visiting in Washington, . . Mayme Hundley is vacationing this week in Murphy, N. C. . . . Howard McClellan and family are relaxing at Myrtle Beach, S. C. . . . L. D. Scott just returned from a visit to his parents' home in Thomasville, N. C. and parents-in-law in Williamson, W. Va.

The Fire and Guard Department has Liz Campbell slipping

ment has Liz Campbell slipping away on vacation without telling anyone, including The Bulletin office (for shame!) . . . Capt.

Dave Turner and his family vacationed in Panama City, Fla. recently . . . G. A. Cowan and family vacationed over at Center Hill and Dale Hollow — sounds like fishing, doesn't it? . . . Condolences to **W. T. Galyon,** his mother-in-law passed away recently.

Safety sez that Darlene Hunni-



Redmon Children Gather To Help Parents Celebrate Anniversary At Wartburg Home

The Perry Redmons, Route 1, the United States Navy; Mr. and Wartburg, celebrated their 35th Wedding Anniversary recently at home with all their children prehome with all their children pre-sent. Redmon is in Y-12's Tool Department, Finance and Materials Division.

Both the Redmons, (she is the former Winnie Newberry) are natives of Wartburg and were married July 6, 1927. Their nine healthy and fine-looking youngsters all came home, and Mrs. Redmon's mother, Mrs. Mary Lee Newberry, completed the family circle, making four generations

gathered at one time.

The fine families include: Mr. and Mrs. Willie Redmon and children Dale, Gail and Rene; Mr. and Mrs. Jimmy Schubert and children, Donna, Ricky and Debbie, of Wartburg; Mr. and Mrs. S. M. Redmon and children Threesa and Tonja, Charleston, obse S. C., where he is stationed with was.

Redmon and girls Gwendlyn and Denise of Joliet, Ill.; Mr. and Mrs. Dean Lamance and son Randy, Knoxville, Tenn.; Tommy Redmon, a senior at the Tennessee Polytechnic Institute, Cookeville; and Louis and Herbert Redmon, living at home. Louis is attending an electronics school in Wartburg Central High School, from which he graduated this year. Herbert is a junior there.

The proud father came to Y-12 October 10, 1944, after working here prior to that time in construction with Stone and Webster Engineering Corporation.

Congratulations to the Redmon family! It is hoped that many, many more anniversaries will be observed as happily as this one

ASM Takes Subject Poll On Courses

The following courses are being considered for presentation by the local chapter of the American Society for Metals during the 1962-63 academic year. The approximate cost will be \$5 or \$10 per course. Anyone interested should clip the listings below and mail them to H. L. Yakel, Building 4500S, ORNL. Check the appropriate box (or boxes).

Mr. H. L. Yakel 4500S Building ORNL

Yes, I am interested in the following subjects the ASM may offer during the next school term:

- □ Powder Metallurgy
- ☐ Fundamentals of Ferrous Metallurgy
- □ Corrosion
- ☐ Principles of Heat Treating
- ☐ Nuclear and High Temperature Materials ☐ Metallurgy of Welding and Joining
- ☐ Elements of Metallurgy

Name

Building Number and Telephone

homeplace in the "land of laughing waters" . . . Minnesota.

woman we know never cleans up her house. She's mighty good at picking up dirt in the neighborhood, however.

FINANCE AND MATERIALS

Cashier and Travel Office allows that **Earl Goode** and his family are camping out on beautiful Jekyll Island, Georgia . . . The last slave ship to dock in the United States, the Wan-derer, put ashore on the Golden Isles. The three or four clusters of green islands are drenched in

MECHANICAL OPERATIONS

The General Machine Shop pipes in word that E. E. Worsham journeyed down to St. Pet-Continued on Page 4 Stores.



Get well wishes to the following Y-12ers who were patients last week in the Oak Ridge Hos-

pital:
E. L. Hill, Buildings and Grounds; Helen S. Stepp, Production Assay; Ernest R. Bailey, Utilities; T. C. Wilson, Steam Plant; William H. Younger, Area Five Maintenance; N. L. Derryberry, Electrical; Scott F. Sadler, Radiation Safety; F. D. Robinson, Utilities; Okley E. West, Stores; Orion C. Lee, Area Five Maintenance; Guy W. Potts, Research Services; and Herman Hall, Stores.

Art Hines Captures Second Y-12 Golf Tournament Of The Year With A 76



THESE CHARMING PIXIES are known as the Sisters Four Quartet. They are Mary Shoopman, Brenda and Nancy Winstead, and Evelyn Shoopman. They recently took first place in the 4-H Regional Talent Contest in Greeneville, and competed in and reached the finals in the Hillbilly Homecoming contest in Maryville. The Winstead girls are the daughters of Mr. and Mrs. Frank Winstead. Their father is in Y-12's Production Control Department.



Y-12 PARTICIPANTS in the Antique Car Parade, one of the features of the Hillbilly Homecoming held recently in Maryville, are seen with their A-Model Ford. From left are George Cotter, Jean Delaney and E. J. Delaney. Cotter and Delaney are in Y-12's Forming Department . . . Jean is Delaney's daughter.

3-Way Tie Made City-Wide Hoss'shoe In Putt-Putt

New League Begins With Six More Teams

Y-12's Putt - Putt League got into high gear last week, going into the second week of play. Three duos lead now with two wins and no losses each.

The Hines-Pearson team (with O. G. Stone substituting) racked the Massey-Bishop pair by nine strokes. Art Hines took holes-inone on the two most difficult greens... numbers 15 and 18, while Tom Bishop scored aces on numbers 11 and 14.

The two distaff teams collided as Cusman-Gilliland brushed by Boswell-Isham by 14 strokes. The Kendrick - Seivers combination eased by Harte-Porter by eight strokes. The Ryder-Wyatt team took Cantrell - Young by 11 strokes. Ryder took two aces on and sever while Cantrell scored one on 13.

The Akers-Sinclair two, winners of the first half of league play, eased by Campbell-Waddle by 18 points.

League standings follow:

Lice beardings tonow.
Team W
Akers-Sinclair 2
Ryder-Wyatt2
Hines-Pearson 2
Cantrell-Young 1
Kendrick-Seviers1
Cusman-Gilliland 1
Bishop-Massey 1
Campbell-Waddle 0
Boswell-Isham 0
Harte-Porter 0
Another league in ministr

Tournament Is Set

Dates for the qualifying round of the City-wide Horseshoe Pitching Tournament have been set for Monday, Tuesday and Wednesday, August 6, 7, and 8, at the Ridge Horseshoe Courts. Championship play will begin Monday, August 13. The complete championship schedule cannot be determined until after all qualifying is completed.

Entry fee is 50c and each contestant will pitch 100 shoes in the qualifying round. Ringers and "close" shoes will count in the qualifying round. Contestants will be divided into groups of eight for the final play. Each group of eight will play a round robin schedule. Each match in the fround robin will consist of one 50 point game. The contestant winning the most matches will be declared the winner of each

Trophies will be awarded to winners and runnersup in each will have all kinds of guns, angroup. The tournament is open tique and otherwise, for sale or to all Oak Ridge residents and Oak Ridge employees. Hours for qualifying on August 6, 7 and 8 will be from 6:30 to 9 p.m. each

Avery Kendig is the Y-12 representative forming the tourna-ment committee. He may be reached on extension 7972 for further information on the play.

Y-12 Monday Putt-Putt League got under way. The six-team col-Harte-Porter 0 2 lection will shoot each Monday at Another league in miniature golf began action this week as the start in next week's Bulletin.

Slo Pitch League Moves To Mid-Point Men Play Niota At Y-12's Shifters Keep Second Place Par-72 Greens

Eagles, E Wingers And Atoms All Have Lost Only Two Games Hanging Onto League's Third Position

The Carbide Slo Pitch for Carbiders saw plenty of action last week. Tuesday's games all got played at Pinewood, as the Jefferson filed got soaked too much for fielding.

The Y-12 Shifters demoted Y-12's Generals by a 6 to 3 score. Thompson was the big stick for the Shifters as he talled a homer and a triple. Field and Law both had doubles for the shifting team. Seivers, Dyer and Roe had doubles for the losing Generals. R H 6 11 3 13 Line Scores

Line Scores

Shifters

Shifters

Generals

Batteries: Shifters: Rutherford,
Grubb and Chapman. Generals: Law.
Brendall and Gregg.

Y-12's Slip Sticks fell by the wayside to the Whiffers, from the Oak Ridge Gaseous Diffusion Plant in a close one, 12 to 14.
Clark and Williams homered and tripled for the winning team, as tripled for the winning team, as Rose homered for the losers and

Anderson tripled.

Line Scores

R
H
E
Whiffers
14
14
4
Slip Sticks
12
10
3
Batteries: Whiffers: Perry and Howell. Slip Sticks: Pluhar, Anderson and

Fogg.
Y-12's Tabs collected a forfeit
win from the ORGDP Codgers as the Codgers dodged out of this

Jefferson dried sufficiently as play resumed there. The first game was a walk-away as the league-leading Kentucky Wonders, from ORGDP, tripped the Generals (Y-12) by a tally of 18 to 4. George Harris had three home runs, as S. Harris took two, Fourman, Owen and Glenn Harris took one each. Bullard captured triple for the losing Generals.

Line Scores

R
H
E
Kentucky Wonders
18
23
1
Generals
4
10
1
Batteries: Kentucky Wonders: Fourman and Jones. Generals: Law and Brendle.

V 12's Shiftons continued their

Y-12's Shifters continued their winning streak by clipping the ORGDP Codgers 11 to 5. J. Grubb and Roe had four-baggers for the winners, while Roe and Sievers had triples. Dripps had the only

big one on the losing squad, while Corn tripled. Line Scores Shifters Codgers

Batteries: Shifters: Rutherford and

Peters. Codgers: Iacovino and Hammes.

The final game at Jefferson saw the ORGDP Fly Swatters clip the wings from Y-12's Eagles 17 to 5. John Pridgeon had the only homer of the game as he belted one out for the birds. Box tripled for the winning Swatters, as his team rallied 19 hits. The helpless Eagles tallied a total of seven

miscues. Line Scores

Eagles 5 Batteries: Fly Swatters: Box and Carter. Eagles: Rains and Fell.
Pinewood's fields saw two games Thursday as the Y-12 games Thursday as the Y-12 teams tangled, the Tabs and the E. Wingers, the Tabe Winning 13 to 8. Hyatt scored a four-bagger, on the losing squad, while Bass took a double for the winning Tabs. The E Wingers lost, thanks to their 11 bumbles.

Wingers 13 15 3
Batteries: Tabs: Ryder and Jones.
Wingers: Hagood and Hyatt.
Two Y-12 teams closed Tabs E Wingers

tion at Pinewood as the Atoms broke the Slip Sticks 15 to 6. Harding homered for the losers, Tripp had one for the winners. Doubles were earned by J. Davis, B. Davis and Cothron for the Atoms, while Hardin whacked one for the losers.

Line Scores

R
H
E
Atoms

Atoms 15 15 1

Slip Sticks 6 11 6

Batteries: Atoms: Cothron and Myers. Slip Sticks: Anderson and Rogers.

League standings follow:

Deague standing	SO TOHOW
Team	W
Kentucky Wonders	4
Shifters	5
Eagles	3
E Wingers	3
Atoms	3
Tabs	3
Whiffers	9
Codgers	2
Fly Swatters	
Generals	
	<u>I</u>
Slip Sticks	

LIFE BEGINS UNDER \$40 What price range do investors

prefer when they're buying stock? The New York Stock Exchange's latest study of the subject indicates that three out of five prefer issues — other fac-tors being equal — selling below

to treason.

Art Hines has won his second Y-12 Golf Tournament as he took the Niota play with 76, or four over par. A total of 108 golfers turned out for the new course (new as Y-12ers go). The Springbrook Country Club, located in the Sweetwater Valley, was a popular course for the duffers, apparently from the scores.

The first division also saw Irv

The first division also saw Irv Speas win his handicap score of 68, followed by J. H. Jones and his 69. Other handicappers were George Dykes with 70 and Jim George, Don Gilliam and H. H. Pratt, all with 71. Other low scratch scores featured Carl Dorr and Bill Maddux tying for second low with 77 each. Bill Mee followed with 80. The most pars saw a three-way tie as F. K. Clabough, John H. Boyd and Newt Hamby all had 12

Hamby all had 12.

SECOND FLIGHT

In this division, Floyd Ludwig came in with a low of 81 scratch score, while Jim Cook had 84; W. score, while Jim Cook had 84; W. C. Hoppe and R. P. (Bob) Wallace had 85. Low handicappers had A. C. (Mac) Wright with a 69, W. R. Hicks and Lou Watson with 71, and Ed Roberts Sr. with a 72. Most pars in the second flight were won by George Oliphant with 10 and Glenn Bates who had eight who had eight.

THIRD FLIGHT

G. A. Tedder took the third flight with a low 85 scratch score. Other scratchers were W. B. Goss, 91; Harold Zang, 93; and Jim Wiley, 94. Low handicap firers were C. J. Beckett, 69; Tom Douglass and Carl Redding, each with 74; Jack McLendon, 76. Most pars were earned by Dan Morgan with eight, and Al Lasater

and Bill Belvin with six each.

FOURTH FLIGHT

Low man scratch-wise in this division was C. W. Nelson, 85; followed by Morris Dupee, 92; John Evans, 96; and R. H. Gassoway, 98. The low handicaps were registered by Don Stinnett, with 70; Jack Gamble, E. M. Massey and W. H. Tedder, all with 72. Most pars saw a tie between Art Stewart and Bill Mattingly, each with four.

The next Y-12 Golf Tourna-ment is announced as Saturday, August 25, at the popular Gat-linburg Country Club. The first 10 foursomes will be given carts, that is, 20 carts for the first 10 quartets teeing off. Registrations for the drawings are being taken in the Recreation Office, tele-phone 7109, now. Details for Security compromise amounts drawings and the drawing of tee-off times will follow in next week's Bulletin.



'THAT ONION-HEAD IN THE MIDDLE is me,' declares Eugene A. Malone, Research Services. Malone proudly poses with the giant onions he grew in his garden this summer at his home at 660 West Outer Drive, Oak Ridge. His faithful beagle hound inspects some good-looking cabbage at the left, while beans and corn prosper in the background.

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 15 and 10-year anniversaries with Carbide within the next few days.

15 YEARS

Wallace Humphrey, Area Five Maintenance, August 5. 10 YEARS Robert P. George, Electrical Engineering, August 1.

Gun Club Will Hold Antique Show In Ridge

No gun-slinging is allowed in Oak Ridge . . . gun swapping is allowed, however. The Smoky Mountain Gun Show, featured this week-end at the Oak Terrace trade. Sponsored by the Smoky Mountain Gun Collectors Association, the show is set for 9 a.m. until 9 p.m. Saturday, August 4, and from 9 a.m. until 3 p.m.

Sunday, August 5.
M. C. "Red" Wiest is in charge of the production, which is 50c per admission. Table space is also available from Red, but must be made in advance of the show. Advance reservations for display space is \$5. Wiest may be contacted at his home at 234 North Tulane Ave., Oak Ridge, or by telephone there on phone 483-

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Captain Jack Day Completes Command And Staff College Course At Maxwell Base

Jack R. Day Sr., Y-12's Ceramics and Plastics Development, was a member of the graduating class at the recently concluded Command and Staff College ori-entation course at the Air Uni-versity, Maxwell Air Force Base, Alabama.

Day, who holds a captain's commission in the Air Force Reserves, is a graduate of Western Kentucky State College, Bowling Green, Ky., holding a BS degree in chemistry and mathematics from that school.

Capt. Day lives with his family at 146 Waddell Circle, Oak Ridge. Mrs. Day is the former Patricia L. Jackson, Galveston, Tex. The chemist came to Y-12 July 3, 1951.

The young chemist was one of 383 selected reserve officers from a wide range of civilian occupations and professions to be chosen C Shift Picnic for the special course. He received instruction designed to acquaint him with the present threat to free world security. The current roles, capabilities and employment concepts of Air Force aerospace components and forces of the other United States military services were stressed.



Riders wanted to West or Bear Creek Portals from Harriman, South Harriman or Midtown, straight day. R. W. Curtis, plant phone 7-8465, home phone Harriman 882-9291.

Car pool members wanted from North Knoxville to North Portal, straight day. E. A. Fritts, plant phone 7993, home phone Knox-ville 525-3452; or G. A. Kirk, plant phone 7500, home phone Knoxville 522-7573.

Native Dane Describes Country To UN Group

A native of Denmark will discuss this Scandinavian country at the next meeting of the study group of the Oak Ridge chapter of the American Association of the United Nations. A. C. (Chris) Winther, in Oak Ridge on a year's fellowship from the International Atomic Energy Agency of Denmark, will cover pre-historic to modern day life in Denmark, the relationship of Scandinavia to Europe and navian's impressions of the United States at the meeting.

Winther, his wife and three children, will return to Denmark at the end of this month.

The meeting will be held at 8 p.m. next Thursday, August 9 in the Oak Ridge School Administration Building on the Turnpike at Administration Road. The meeting is open to the public. All persons who desire to meet the Winthers and take part in the UN group activity are urged to



Captain Jack R. Day

Set At Big Ridge

C Shifters are planning a family picnic to be held next Wednesday, August 8, at Big Ridge. There will be lots of free ice cream, soft drinks, games and

The entertainment is set to begin at 10 a.m. with lunch sched-uled for 12:30. Since this beautiful park is close to home for most Y-12ers, and since its popularity is unexcelled, it's expected by Cmen that a multitude will turn out for the event.

ORNL's Stelson Will **Hold Physics Seminar**

Oak Ridge National Labora-tory's Physics Seminar this week is announced as "Excitation of Collective States by Inelastic Scattering of 14 Mev Neutrons." Heading the seminar will be P. H. Stelson, ORNL's Physics Divi-

It is set for Friday, 3:15 p.m. in the East Auditorium of the 4500 Building.

90¢ Dividend Is Set By Union Carbide

The board of directors of Union Carbide Corporation has declared a quarterly dividend of ninety cents (90c) per share on the outstanding capital stock of the corporation, payable September 1, 1962, to stock-holders of record August 6,

The last quarterly dividend was ninety cents (90c) per share paid June 1, 1962.





continued From Page 2
ersburg, Fla., for a week on the beach . . . Ed Collier just stayed around home to paint the place . . . Bob Lowery took his family down to Pickwick Lake for a week of fishing and boating.

Get well wishes to Angie Huston, the daughter of Hoyt Huston who underwent surgery re-

ton who underwent surgery recently in Johns Hopkins Hospital . . . Sympathy is sent to the family of C. P. Wilkins.

Spending his vacation at home in Oak Ridge taking it easy is **H. N. Wright.**

Newest proud grandpop in the Shop is Lyle Lankford . . . his granddaughter Laura Elisa Lank-ford was born July 19 in Texas. Congratulations to **Paul** and

Emily Helton on the birth of a daughter, Natalie Ward, at Ft. Sanders Hospital, July 22. Natalie weighed eight pounds, seven ounces. Emily was formerly em-

ployed in Mechanical Operations. The Production Control Department tells that Mozelle Kennedy is welcomed aboard as she has been helping out in the group . . . Gil Jamieson visited with relatives at home while on his vacation . . . Al Fischer spent his at home also . . . Dick Holbrook stayed at home to get acquainted with the new baby.

Relaxing at Cumberland State Relaxing at Cumberland State
Park were Al McConkey and his
family . . Wes Sorrell did his
child a good deed by keeping
their children while they vacationed . . . Charlie Peterson
wouldn't tell where he was vacationing . . . Ed and Jeanne
Cothron vacationed recently in cationing . . Ed and Jeanne Cothron vacationed recently in Bagdad on the Hudson, painting the town red, it's heard . . . Polie the town red, it's heard . . . Polie Arnold will have a crick in his neck when he gets back from Seattle from all that staring at the space needle. Bet he'll have a lot to talk about, though.

Vacationing at Myrtle Beach is Ella Stansell, who has also been helping out recently. It's told she spent her vacation with a Pixie (then they put in the foot notes that a "pixie" is a haircut!)

MAINTANENCE

Electrical says that C. C. Sharp recently spent a week of vacation building a new barn (which isn't some peoples' idea of a vacation at all!) . . . S. King and family recently made a vacation trip to Chicago to visit kin and enjoy the sights . . A. K. Johnson vacationed at home caring for the kids and his wife, Wanda, who is recovering from a little back with recovering from a little bout with the surgeon's knife . . . **J. D.**Moore will be vacationing at home to give the little woman some help.

Catching the old trout this week are T. J. Anders who took off to Carolina, and R. E. Seivers will be prowling the waters of Norris . . . R. E. Douglas and family are journeying out to Las Vegas to visit his son . . . R. C. Hauther and J. V. Bibee plan to spend their time just relaxing around home.

Hopping down to Panama City way to enjoy the sun, sand, and fishing are A. G. Curtis and family and a few kin-folk . . K. G.
Reedy and family will be enjoying the fishing and water skiing
on Watts Bar Lake . . . Sympathy is extended to J. D. Moore and family on the recent death of his sister and to Randy Peters plastics. on the death of his aunt.

Sorely missed around the place is **Jo Phelps** and it's hoped she'll rid herself of the bug and hurry back soon . . . Mary White and hubby, Joe, recently made a trip to Athens to see her sister who was visiting from far away California.

Keep chins up . . . all four of them!

GREAT SEAL

The Great Seal of the United States contains the phrase, Annuit coeptis, or "He smiles on our beginnings.



'WHAT TIME IS IT, OLD WITCH?' might be asked the August winners in Safety's poster contest, as the winners will take the above wrist watches. First place winner takes his choice of a man or woman's watch, while the second place winner takes the other one. The theme for August's contest is "Plant Hygiene.

Handsome Watches Are Prizes In August's Poster Contest With 'Plant Hygiene' Theme

Alice thought it most peculiar for a rabbit to have a watch pocket, even stranger that he had a watch. Winners in the August poster contest, sponsored by the Safety Department, like Alice's rabbit, will walk away with fine watches. A woman's watch, as well as a man's, are the featured awards in the popular contest.

UCC's Background In Electronics . . .

Continued from Page 1 increase is attributed mainly to the extraordinarily wide interest in the use of synthetic ruby and other crystals for optical masers. For this particular application, Linde has developed more than 10 new crystals in the past year. Recently, working with Bell Laboratories, the company produced a synthetic ruby-sapphire crystal that led to the first continuous operation of an optical maser in the visible range. Linde also produces single crystals, such as synthetic sapphire, for insu-lator rods and tube supports; solar cell windows and domes for infrared detection devices; and single crystals tungsten used for target emitters, contact points, and lead-ins in vacuum equip-ment. In addition, Linde supplies electronics industry Molecular Sieve adsorbents, which are used as moisture getters in transistors; polishing powders for semiconductors; rare gases for inert atmosphere tubes and devices; liquified gases and super insulation for cryogenic applications in super conductivity and maser technology; and tung-sten parts, such as grid cages and X-ray targets, fabricated by new plasma arc techniques.

Products supplied by other di-visions of Union Carbide to the electronics industry include batteries for powering everything from hearing aids to defense equipment, carbon and graphite products, specialized chemicals, silicones, pure metals, alloys, and



"Hey, dad-what's this?"

August's theme is announced by Safety as "Industrial Hy-giene," a many-faceted feature of plant safety. Y-12ers, Oak Ridge National Laboratory employees in V-12 plus members of their in Y-12, plus members of their families, may enter the contest. Only previous winners in the 10month-old race and members of the Safety Department are ineligible.

Entries should be submitted with a rough sketch of the intended illustration on plain eight and one-half inch by 11 paper. Submit entries to the Safety Department, Room 154, Building 9704-2, Zone 2.

Only one more month's poster is left in the current series of campaigns. August's theme will be used in the November safety agenda. The first place winner in the contest, not only walks away with his choice of the two awards, his poster is also reproduced and used in Bulletin Boards through-

All ideas will be accepted throughout the month, with the deadline announced on August

UT Expands

Continued From Page 1 in extension and correspondence work.

The latest outlines for degree programs are available at the Evening School office, 136 Glocker Business Administration Building, University of Tennes-see, Knoxville. Students may also visit the office for help in out-lining other degree programs or for special problems in arranging

evening school work.
Contact Admissions Dean

Since the Evening School, both at Knoxville and at Oak Ridge, is organized on the same day divisions of the University, the same regulations apply in regard to admissions. These regulations, plus information on fees, financial assistance, course descriptions, faculty, grading system, attendance, and other data valuable to Evening School students are contained in the new U-T General Catalog, 1962-64. The catalog may also be obtained upon request to the Dean of Admissions

Master spies depend a lot on loose talk.